

0590
086

#4



ENTERED

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/081,076

DATE: 01/16/2003

TIME: 13:13:29

Input Set : A:\25231-20060.02.txt

Output Set: N:\CRF4\01162003\J081076.raw

4 <110> APPLICANT: Coutts, Stephen M.
5 Barstad, Paul A.
6 Iverson, G. Michael
7 Jones, David S.
9 <120> TITLE OF INVENTION: COMPOSITION FOR INDUCING HUMORAL ANERGY
10 TO AN IMMUNOGEN COMPRISING A T CELL EPITOPE-DEFICIENT ANALOG
11 OF THE IMMUNOGEN CONJUGATED TO A NONIMMUNOGENIC VALENCY
12 PLATFORM MOLECULE
15 <130> FILE REFERENCE: 252312006002
17 <140> CURRENT APPLICATION NUMBER: US 10/081,076
C--> 18 <141> CURRENT FILING DATE: 2002-12-27
20 <150> PRIOR APPLICATION NUMBER: US 09/563,167
21 <151> PRIOR FILING DATE: 2000-05-20
23 <150> PRIOR APPLICATION NUMBER: US 08/118,055
24 <151> PRIOR FILING DATE: 1993-09-08
26 <150> PRIOR APPLICATION NUMBER: US 07/652,648
27 <151> PRIOR FILING DATE: 1991-02-08
29 <160> NUMBER OF SEQ ID NOS: 11
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 8
35 <212> TYPE: PRT
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Synthetic construct
41 <400> SEQUENCE: 1
42 Arg Ser Lys Ser Lys Ser Lys Cys
43 1 5
46 <210> SEQ ID NO: 2
47 <211> LENGTH: 8
48 <212> TYPE: PRT
49 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: Synthetic construct
54 <400> SEQUENCE: 2
55 Ile Lys Arg Lys Arg Gln Gln Gly
56 1 5
59 <210> SEQ ID NO: 3
60 <211> LENGTH: 9
61 <212> TYPE: PRT
62 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Synthetic construct

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/081,076

DATE: 01/16/2003
 TIME: 13:13:29

Input Set : A:\25231-20060.02.txt
 Output Set: N:\CRF4\01162003\J081076.raw

```

67 <400> SEQUENCE: 3
68 Trp Ile Lys Arg Lys Arg Gln Gln Gly
69 1 5
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 10
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Synthetic construct
80 <400> SEQUENCE: 4
81 Ser Trp Ile Lys Arg Lys Arg Gln Gln Gly
82 1 5 10
85 <210> SEQ ID NO: 5
86 <211> LENGTH: 11
87 <212> TYPE: PRT
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Synthetic construct
93 <400> SEQUENCE: 5
94 Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln Gly
95 1 5 10
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 12
100 <212> TYPE: PRT
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Synthetic construct
106 <400> SEQUENCE: 6
107 Cys Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln Gly
108 1 5 10
111 <210> SEQ ID NO: 7
112 <211> LENGTH: 14
113 <212> TYPE: PRT
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Synthetic construct
W--> 119 <221> NAME/KEY: VARIANT
120 <222> LOCATION: 1
121 <223> OTHER INFORMATION: Xaa = This position is H2N
W--> 123 <221> VARIANT
124 <222> LOCATION: 14
125 <223> OTHER INFORMATION: Xaa = This position is CO2H
W--> 127 <400> 7
W--> 128 Xaa Cys Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln Gly Xaa
129 1 5 10
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 12
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/081,076

DATE: 01/16/2003
 TIME: 13:13:29

Input Set : A:\25231-20060.02.txt
 Output Set: N:\CRF4\01162003\J081076.raw

```

137 <220> FEATURE:
138 <223> OTHER INFORMATION: Synthetic construct
W--> 140 <221> NAME/KEY: VARIANT
141 <222> LOCATION: 1
142 <223> OTHER INFORMATION: Xaa = This position is H2N
W--> 144 <221> VARIANT
145 <222> LOCATION: 12
146 <223> OTHER INFORMATION: Xaa = This position is CO2H
W--> 148 <400> 8
W--> 149 Xaa Cys Trp Ile Lys Arg Lys Arg Gln Gln Gly Xaa
      150 1 5 10
153 <210> SEQ ID NO: 9
154 <211> LENGTH: 13
155 <212> TYPE: PRT
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Synthetic construct
W--> 161 <221> NAME/KEY: VARIANT
162 <222> LOCATION: 1
163 <223> OTHER INFORMATION: Xaa = This position is H2N
W--> 165 <221> VARIANT
166 <222> LOCATION: 13
167 <223> OTHER INFORMATION: Xaa = This position is CO2H
W--> 169 <400> 9
W--> 170 Xaa Trp Ile Lys Arg Lys Arg Gln Gln Lys Cys Gly Xaa
      171 1 5 10
174 <210> SEQ ID NO: 10
175 <211> LENGTH: 21
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Synthetic construct
W--> 182 <221> NAME/KEY: VARIANT
183 <222> LOCATION: 1
184 <223> OTHER INFORMATION: Xaa =This position is H2N
W--> 186 <221> VARIANT
187 <222> LOCATION: 21
188 <223> OTHER INFORMATION: Xaa= This position if CO2H
W--> 190 <400> 10
W--> 191 Xaa Trp Ile Lys Arg Lys Arg Gln Gln Trp Ile Lys Arg Lys Arg Gln
      192 1 5 10 15
W--> 193 Gln Lys Cys Gly Xaa
      194 20
197 <210> SEQ ID NO: 11
198 <211> LENGTH: 28
199 <212> TYPE: PRT
200 <213> ORGANISM: Melittin from bee venom
202 <220> FEATURE:
203 <221> NAME/KEY: VARIANT

```

RAW SEQUENCE LISTING

DATE: 01/16/2003

PATENT APPLICATION: US/10/081,076

TIME: 13:13:29

Input Set : A:\25231-20060.02.txt

Output Set: N:\CRF4\01162003\J081076.raw

204 <222> LOCATION: 1
205 <223> OTHER INFORMATION: Xaa = This position is H2N
207 <221> NAME/KEY: VARIANT
208 <222> LOCATION: 28
209 <223> OTHER INFORMATION: Xaa = This position is CO2H
W--> 211 <400> 11
W--> 212 Xaa Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala
213 1 5 10 15
W--> 214 Leu Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln Xaa
215 20 25

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/081,076

DATE: 01/16/2003
TIME: 13:13:30

Input Set : A:\25231-20060.02.txt
Output Set: N:\CRF4\01162003\J081076.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; Xaa Pos. 1,14
Seq#:8; Xaa Pos. 1,12
Seq#:9; Xaa Pos. 1,13
Seq#:10; Xaa Pos. 1,21
Seq#:11; Xaa Pos. 1,28

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/081,076

DATE: 01/16/2003

TIME: 13:13:30

Input Set : A:\25231-20060.02.txt

Output Set: N:\CRF4\01162003\J081076.raw

L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:119 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:123 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:127 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:140 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:144 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:148 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:161 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:165 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:169 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:182 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:186 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:190 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16
L:211 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16